

Are Your Toroids Too Hot?

Traditional Toroid
Temperature Rise 57°C



TIGHTpak™ Toroids are Cooler!
Temperature Rise 23°C
Temperature Rise Reduced 60%

Same Inductance ▲ Same Size ▲ Both Single Layer ▲ Same Start/Finish Gap

Are Your Toroids Too Big?

Traditional Toroid
Volume 0.408in³



TIGHTpak™ Toroids are Smaller!
Volume 0.202in³
Size Reduced 50%

Same Inductance ▲ Same DCR ▲ Both Single Layer ▲ Same Start/Finish Gap

Are Your Toroids Too Noisy?

Traditional Toroid
No Start/Finish Gap
Multiple Layers

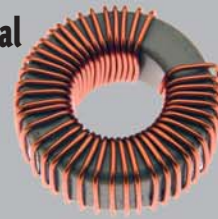


TIGHTpak™ Toroids are Quieter!
Start/Finish Gap
Single Layer

Same Inductance ▲ Same Size ▲ Same DCR

Do Your Toroids Need More Inductance?

Traditional Toroid
30.3uH



TIGHTpak™ Toroids have More Inductance
83.2uH (3X More)

Same Size ▲ Same Wire Gauge ▲ Both Single Layer ▲ Same Start/Finish Gap

The closest to ideal you can get.



Most engineers would rather work with ideal components than with more complex, real-world components. The calculations would be simpler and the headaches would be less severe. Seldom do engineers have that choice.

Now they do.

Actown Electrocoil, Inc. introduces a new technology that brings toroidal inductors one step closer to ideal. TIGHTpak toroids are designed to allow more turns per single layer of windings, allowing the engineer to work with components that exhibit behavior closer to ideal than previously possible.

Ideal inductors are purely inductive with no capacitance. Operation becomes much more complex in inductors with multiple layers of windings because of the effects of parasitic capacitance now magnified by the multiple layers. EMI concerns, reduced circuit predictability, and a lower SRF (Self Resonant Frequency) all contribute to more complex and usually unattractive circuit behavior. Keeping a toroid's geometry to a single layer minimizes complexity and maximizes design efficiency.

TIGHTpak toroids can keep your toroidal geometry to a single layer, making design and manufacturing more ideal.

Actown Electrocoil, Inc. was formed back in 1952, as a modest coil-winding house in the suburbs of Chicago. Through strategic acquisitions, partnerships, joint ventures, and internal growth, Actown Electrocoil, Inc. has grown into a leading transformer and coil supplier with extensive global design, manufacturing, and procurement capabilities.



TIGHTpak™ Toroid.com
Visit for details of this new toroidal technology

Transforming the Future™
www.actown.com
815.675.6641

PATENT PENDING

Transformers ▲ Coils ▲ Inductors ▲ Worldwide Manufacturing ▲ Local Support